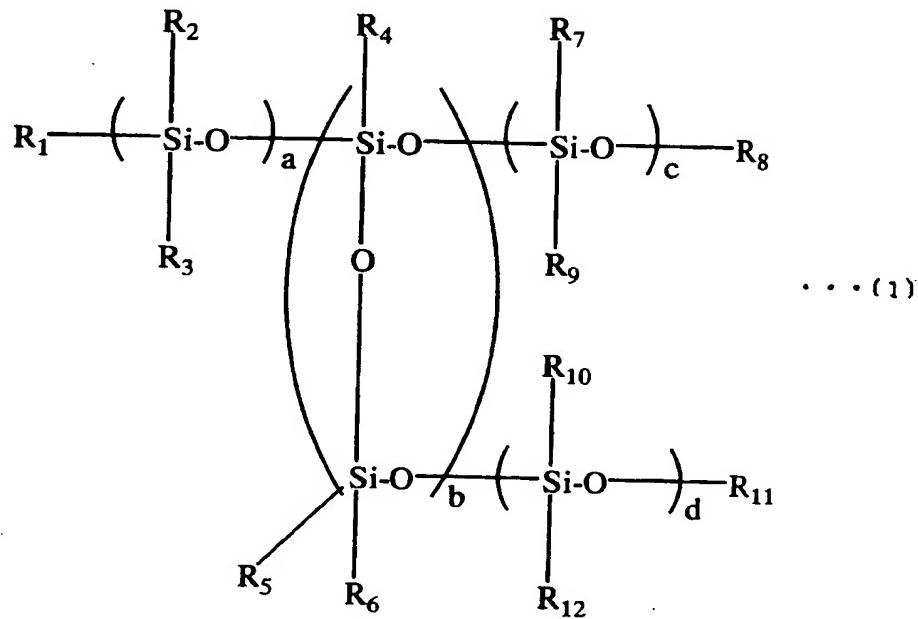


WHAT IS CLAIMED IS:

1. A solid electrolyte, wherein the solid electrolyte is formed by baking a thin film in which a silicon compound contains a metal salt compound.
- 5 2. The solid electrolyte according to claim 1, wherein said metal salt compound is a lithium salt compound.
3. The solid electrolyte according to claim 1, wherein said thin film contains at least either of a polysilane which is soluble in organic solvent or a silicone compound,
- 10 as a silicon compound.
4. The solid electrolyte according to claim 1, wherein said silicone compound has a structure represented by the following general formula (1)

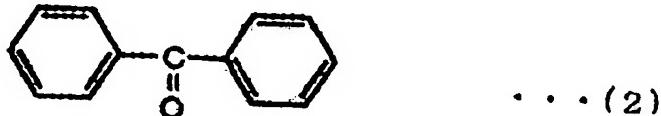


wherein R_1 to R_{12} are groups selected from the group

consisting of aliphatic hydrocarbon groups containing 1 to
10 carbon atoms, for a part of which a halogen group or a
glycidyloxy group may substitutes, aromatic hydrocarbon
groups containing 6 to 12 carbon atoms and alkoxy groups
containing 1 to 8 carbon atoms and may be identical with or
different from one another, and a, b, c and d are integers
including 0 and satisfy a relationship of $a + b + c + d \geq 1$.

5 5. The solid electrolyte according to claim 1, wherein
said thin film contains at least one of peroxide and
10 benzophenon derivative.

6. The solid electrolyte according to claim 5, wherein
said benzophenon derivative has a benzophenon skeleton
represented by the following formula (2).



7. The solid electrolyte according to claim 5, wherein
15 said peroxide has at least one or more linkages represented
by -C (= O) - O - O - in the molecular structure.

8. The solid electrolyte according to claim 1, wherein
said solid electrolyte was prepared by baking at a
temperature of 400°C or higher.

20 9. A capacitor element, wherein said capacitor element
has a structure in which the solid electrolyte according to
claim 1 is sandwiched between a pair of electrodes.